

METHODS FOR ENHANCING THE PRODUCTION OF VIRAL VACCINES  
IN CELL CULTURE

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ABSTRACT OF THE DISCLOSURE

Methods for enhancing the production of viral vaccines in animal cell culture are  
10 described. These methods rely on the manipulation of the cellular levels of certain interferon  
induced antiviral activities, in particular, cellular levels of double-stranded RNA (dsRNA)  
dependent kinase (PKR) and 2'-5' oligoadenylate synthetase (2-5A synthetase). In cell cultures  
deficient for PKR or 2-5A synthetase, viral yield is enhanced by several orders of magnitude  
over cell cultures with normal levels of these proteins making these cell cultures useful for the  
15 production of viral vaccines.

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